

## Refine Search

### Search Results -

Terms	Documents
L2 same ("point-to-point" or "point to point" or SCSI or SATA or PATA)	7

Database:

US Pre-Grant Publication Full-Text Database  
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 JPO Abstracts Database  
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 IBM Technical Disclosure Bulletins

Search:

L4



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<u>Set</u> <u>Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=PGPB; PLUR=YES; OP=OR</i>			
<u>L4</u>	L2 same ("point-to-point" or "point to point" or SCSI or SATA or PATA)	7	<u>L4</u>
<u>L3</u>	L2 and ("point-to-point" or "point to point" or SCSI or SATA or PATA)	33	<u>L3</u>
<u>L2</u>	L1 same virtual\$7	39	<u>L2</u>
<u>L1</u>	(storage or disk or disc) same (controller near5 redundant)	701	<u>L1</u>

END OF SEARCH HISTORY

## Refine Search

### Search Results -

Terms	Documents
L6 and ("point-to-point" or "point to point" or SCSI or SATA or PATA)	59

Database:

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Search:

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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L7</u>	L6 and ("point-to-point" or "point to point" or SCSI or SATA or PATA)	59	<u>L7</u>
<u>L6</u>	L5 same virtual\$7	77	<u>L6</u>
<u>L5</u>	(storage or disk or disc) same (controller near5 redundant)	1792	<u>L5</u>
<i>DB=PGPB; PLUR=YES; OP=OR</i>			
<u>L4</u>	L2 same ("point-to-point" or "point to point" or SCSI or SATA or PATA)	7	<u>L4</u>
<u>L3</u>	L2 and ("point-to-point" or "point to point" or SCSI or SATA or PATA)	33	<u>L3</u>
<u>L2</u>	L1 same virtual\$7	39	<u>L2</u>
<u>L1</u>	(storage or disk or disc) same (controller near5 redundant)	701	<u>L1</u>

END OF SEARCH HISTORY

## Refine Search

### Search Results -

Terms	Documents
(370/351  370/431  370/464  370/906  370/910  370/228  370/386  714,5,6,43/  710/240  710/74  710/300  710/316  710/3  710/36  710/38  710/314  710/315  710/8  711/112  711/162  711/151  711/114  711/154  711/203).ccls.	19427

Database:

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L8

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SetName Queryside by  
side

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

L8 710/240,74,300,316,3,36,38,314,315,8;711/112,162,151,114,154,203;714,5,6,43;370/351,431,46.

L7 L6 and ("point-to-point" or "point to point" or SCSI or SATA or PATA)

L6 L5 same virtual\$7

L5 (storage or disk or disc) same (controller near5 redundant)

*DB=PGPB; PLUR=YES; OP=OR*

L4 L2 same ("point-to-point" or "point to point" or SCSI or SATA or PATA)

L3 L2 and ("point-to-point" or "point to point" or SCSI or SATA or PATA)

L2 L1 same virtual\$7

L1 (storage or disk or disc) same (controller near5 redundant)

END OF SEARCH HISTORY

## Refine Search

### Search Results -

Terms	Documents
L7 and L8	27

Database:

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Search:

L9 ▲▼





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*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

L9 17 and L8

L8 710/240,74,300,316,3,36,38,314,315,8;711/112,162,151,114,154,203;714,5,6,43;370/351,431,46

L7 L6 and ("point-to-point" or "point to point" or SCSI or SATA or PATA)

L6 L5 same virtual\$7

L5 (storage or disk or disc) same (controller near5 redundant)

*DB=PGPB; PLUR=YES; OP=OR*

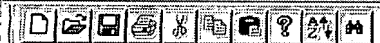
L4 L2 same ("point-to-point" or "point to point" or SCSI or SATA or PATA)

L3 L2 and ("point-to-point" or "point to point" or SCSI or SATA or PATA)

L2 L1 same virtual\$7

L1 (storage or disk or disc) same (controller near5 redundant)

END OF SEARCH HISTORY



- ☐ Drafts
- ☐ Pending
- ☒ **Active**
  - ☒ L1: (726) (storage or disk o
  - ☒ L2: (26) 11 same virtual\$7
  - ☒ L3: (23) 12 and ("point-to-p
- ☐ Failed
- ☐ Saved
- ☐ Favorites
- ☐ Tagged (0)
- ☐ UDC
- ☐ Queue
- ☐ Trash

    DBs: Default operator: ☒ Plurals☒ Highlight all hit terms initially    

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error	Definition	Err
1	BRS	L1	726	(storage or disk or disc) same (controller near5	USPAT	2007/07/24 10:20				
2	BRS	L2	26	11 same virtual\$7	USPAT	2007/07/24 10:20				
3	BRS	L3	23	12 and ("point-to-point" or "point to point" or	USPAT	2007/07/24 10:21				



- [-] Drafts
- [-] Pending
- [-] Active
  - [-] L1: (726) (storage or disk o
  - [-] L2: (26) 11 same virtual\$7
  - [-] L3: (23) 12 and ("point-to-p
- [-] Failed
- [-] Saved
- [-] Favorites
- [-] Tagged (0)
- [-] UDC
- [-] Queue
- [-] Trash

DBs: USPAT

☒ Plurals

Default operator: OR

☒ Highlight all hit terms initially

12 and ("point-to-point" or "point to point" or SCSI or SATA  
or PATA)

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef
1	<input type="checkbox"/>	<input type="checkbox"/>	US 7236987 B1	20070626	44	Systems and methods for providing a storage	707/104.1	707/1; 711/203;
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 7210071 B2	20070424		Fault tracing in systems with virtualization layers	714/45	714/25
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 7194662 B2	20070320		Method, apparatus and program storage device for	714/43	710/300
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 7146485 B1	20061205		Rebuilding of dynamic maps and data managed thereby	711/206	714/5
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 7137032 B2	20061114		System and method for ensuring merge completion in	714/16	709/231; 709/233;



- ☐ Drafts
- ☐ Pending
- ☒ Active
  - ☒ L1: (726) (storage or disk o
  - ☒ L2: (26) 11 same virtual\$7
  - ☒ L3: (23) 12 and ("point-to-p
- ☐ Failed
- ☐ Saved
- ☐ Favorites
- ☐ Tagged (0)
- ☐ UDC
- ☐ Queue
- ☐ Trash

DBs: USPAT

Default operator: OR

☒ Plurals☒ Highlight all hit terms initially

12 and ("point-to-point" or "point to point" or SCSI or SATA or PATA)

☒ BRS form ☒ IS&R form ☒ Image ☒ Text ☒ HTML

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef
11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 7003688 B1	20060221		System and method for a reserved memory area shared	714/7	714/4; 714/5;
12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 7000069 B2	20060214		Apparatus and method for providing very large virtual	711/114	711/112; 711/113;
13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6996741 B1	20060207		System and method for redundant communication	714/5	714/11; 714/4;
14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6973556 B2	20051206		Data element including metadata that includes data	711/202	707/100; 707/E17.005;
15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6947981 B2	20050920		Flexible data replication mechanism	709/223	707/204; 711/114;


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Search

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## » Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. **An 8 MBYTE magnetic bubble memory**  
Iida, K.; Saito, M.; Furukawa, K.;  
[Magnetics, IEEE Transactions on](#)  
Volume 15, Issue 6, Nov 1979 Page(s):1892 - 1894  
[AbstractPlus](#) | Full Text: [PDF\(352 KB\)](#) IEEE JNL  
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- ☐ 2. **Outperforming LRU with an adaptive replacement cache algorithm**  
Megiddo, N.; Modha, D.S.;  
[Computer](#)  
Volume 37, Issue 4, April 2004 Page(s):58 - 65  
Digital Object Identifier 10.1109/MC.2004.1297303  
[AbstractPlus](#) | Full Text: [PDF\(567 KB\)](#) IEEE JNL  
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- ☐ 3. **Implementation of EIDE disk array system for mass data backup**  
Kun Gao; Jing Pei; Haizheng Xu; Longfa Pan;  
[Aerospace and Electronic Systems Magazine, IEEE](#)  
Volume 19, Issue 11, Nov. 2004 Page(s):24 - 29  
Digital Object Identifier 10.1109/MAES.2004.1365662  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(413 KB\)](#) IEEE JNL  
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- ☐ 4. **An efficient BIST method for small buffers**  
Jones, W.B.; Huang, D.C.; Wu, S.C.; Lee, K.J.;  
[VLSI Test Symposium, 1999. Proceedings. 17th IEEE](#)  
25-29 April 1999 Page(s):246 - 251  
Digital Object Identifier 10.1109/VTEST.1999.766672  
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# Implementation of EIDE disk array system for mass data backup

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Tsinghua Univ., Beijing, China  
This paper appears in: Aerospace and Electronic Systems Magazine, IEEE  
Publication Date: Nov. 2004  
Volume: 19 , Issue: 11

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## Abstract

Today, EIDE hard disk drives have become the mainstream products in low-end storage applications. An inexpensive disk array system based on EIDE hard disk drives is proposed, which has not only much higher speed than a tape library but also much lower price than a general SCSI or fibre channel disk array. Each string controller in a disk array can support up to 16 hard disk drives (4TB) and multiple RAID levels (RAID 0,1,0+1,3, 5, NRAID or JBOD). It also provides multiform interfaces for the host computer, including SCSI, USB, FireWire, EIDE, Serial ATA, etc. Since this kind of disk array has excellent price performance ratio, it is worth using in a mass data backup area instead of tape equipments and other low-end secondary storage applications.

Index Terms  
Inspec

## Controlled Indexing

RAID back-up procedures computer interfaces disc drives hard discs

## Non-controlled Indexing

EIDE disk array system EIDE hard disk drives FireWire RAID SCSI Serial ATA USB enhanced integrated drive electronics drives fibre channel disk array mass data backup redundant arrays of independent disks secondary storage string controller tape equipments tape library

Author Keywords  
Not Available

## References

- 1 Acard, Inc. *Acard IDE-to-SATA Converter AEC-7900 Quick Guide*, December 2001.
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- 3 Altera, Inc. *ACEX1K Programmable Logic Device Family Data Sheet*, Version 3.3, September 2001.
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[Abstract](#) | [Full Text: PDF](#) (226KB)
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- 8 P. Schmid, "Hard Drives Instead of Tapes? 70 TB Backup RAID at the University of Tübingen," *Tom's hardware guide*, April 25, 2003 [online] Available: <http://www6.tomshardware.com/storage/20030425/index.html>.
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